

PROBLEM-BASED LEARNING Scenario 1 - Data Collection

Gina would like the Level 3 ESOL students to collect, organize, graph, analyze and present data about the students in our program.

The information that would be useful to her is:

- *age*
- *country of birth*
- *languages spoken (besides English)*
- *current city*
- *length of time in the US*
- *number of kids in public school*
- *transportation to school*
- *number of students who work outside the home*
 - *job titles*
 - *number that work full-time or part-time*

In order to complete this project, Level 3 students will work with a partner and follow these steps:

1. **Collect data** - create interview questions; interview all students; record all answers
2. **Organize data** - put answers to each question in one area; organize data into groups
3. **Graph data** - enter data into Google Sheets; create a graph with data
4. **Analyze data** - calculate percentages; compare groups; decide what it might mean; type 1 paragraph in Google Docs
5. **Present data** - join graph and paragraph; add to website (Jessica); present to the class

Vocabulary – Analyzing a graph or chart

Verbs

to analyze
to calculate
to increase
to decrease

Nouns

bar graph
line graph
pie chart
data
percent (number)
percentages (amount)
average
half of

Adjectives (quantifiers)

many
a few (count)
a little (non-count)
some

Superlatives

highest
lowest
most
fewest (count)
least (non-count)

Comparatives

more than
fewer than (count)
less than (non-count)

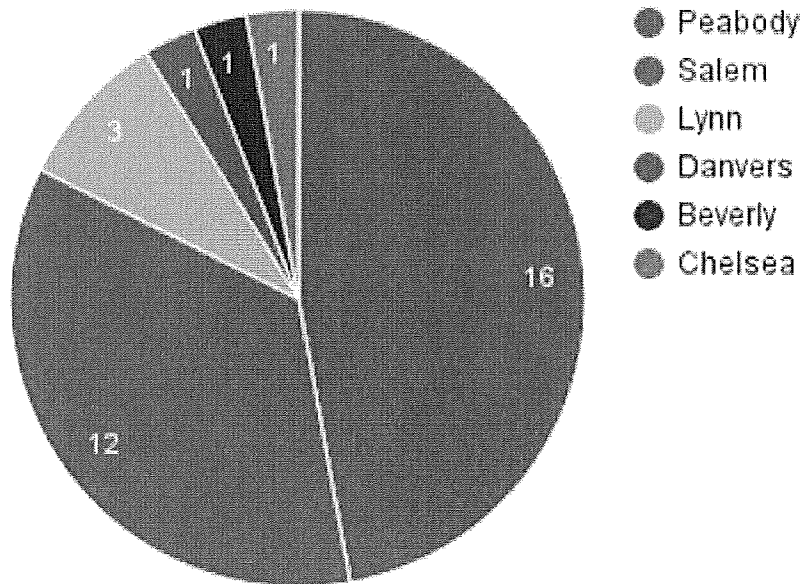
GOOGLE SHEETS – Entering Data and Creating a Chart

- 1) Sign in to gmail.com
- 2) Click on the waffle, then find and click on Sheets
- 3) Click Blank to start a new sheet
- 4) Click on Untitled Spreadsheet to rename the document
- 5) In the A,1 box, type your first category or group name.
- 6) Continue to the right typing all of your group names.
- 7) In the A, 2 box, type the value of your first group.
- 8) Continue to the right typing all of your values.
- 9) Highlight all of your information.
- 10) Click on Insert Chart.
- 11) Google Sheets Chart Editor gives you some ideas of graphs or charts to use.
- 12) Choose 1. (You can also click on Chart Types to see more options.)
- 13) Click on the Customization Tab.
- 14) Type a Title for your chart. (You can change the size and the font color here.)
- 15) If you have selected a pie chart, next to Slice, choose Value, NOT Percent.
- 16) Scroll down. Next to Series, you can change the colors of columns or slices if you want.
- 17) When you are finished click Insert.
- 18) Share your document with your teacher. Click Share (top right).

My email: jcardin@nscap.org

NSCAP ABE PROGRAM STUDENT SITE (/)

Where do you live?



By Ana and Miralba

This pie chart show where NSCAP students live. Most of students live in Peabody. 35% of students live in Salem. The lowest percent of students live in Danvers, Beverly and Chelsea. 9% of students live in Lynn. Fewer students live in Salem than Peabody . Most of students live in Peabody because NSCAP is located in Peabody.

For more examples:
nscapesol.weebly.com/data-collection-2016.html

Question(s)-

Names of Presenters-

Directions: Using a checkmark ✓, give the team 0, 1, 2 or 3 points for each criteria.

Criteria	Points = 0	Points = 1	Points = 2	Points = 3
Presenters' graph was easy to understand.				
Presenters used phrases such as <i>more...than, most, and fewest.</i>				
Presenters used percents in their presentations.				
The presentation was slow and clear.				
Presenters made good eye contact with the audience.				

Notes:

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